

Title (en)

Coaxial connector for coaxial cable having a corrugated outer conductor.

Title (de)

Koaxialer Verbinder für Koaxialkabel mit einem gewellten Aussenleiter.

Title (fr)

Connexion coaxiale pour un câble coaxial avec un conducteur extérieur ondulé.

Publication

EP 0624933 A3 19960131 (EN)

Application

EP 94107316 A 19940510

Priority

- US 6210093 A 19930514
- US 15109593 A 19931112

Abstract (en)

[origin: EP0624933A2] A coaxial connector (10) for a coaxial cable (100) having a corrugated outer conductor (108), including one which is helically corrugated. An adapter (40) of the connector can include a crimpable sleeve (44) within which is a bushing (70) initially having an axial slot (72) of selected dimension. The inner surface (74) of the bushing is fluted defining ridges and grooves (for cable of annular corrugation), or a continuous helical ridge (76) and associated groove (78) defining a thread of corresponding pitch, and general inner diameter permitting cable insertion. Upon full threading of the cable end into adapter (40), crimp sleeve (44) is crimped thus closing axial slot (72) and stopping the crimp process to achieve a minimum desired inner diameter. The adapter may be a discrete subassembly and securable to a forward connector portion in modular fashion by complementary threaded flanges (32,46). A connector (500) can also include one or more radial holes (514) extending to the cable-receiving region permitting solder (522) or conductive epoxy to be deposited following cable insertion, for mechanically and electrically connecting the rearward connector portion to the cable outer conductor (510) other than by crimping. <IMAGE>

IPC 1-7

H01R 17/12

IPC 8 full level

H01R 24/54 (2011.01); **H01R 24/56** (2011.01)

CPC (source: EP KR US)

H01R 9/05 (2013.01 - KR); **H01R 24/542** (2013.01 - EP); **H01R 24/564** (2013.01 - EP); **H01R 4/02** (2013.01 - EP); **H01R 2103/00** (2013.01 - EP); **Y10T 29/49123** (2015.01 - EP US)

Citation (search report)

- [DA] US 5137470 A 19920811 - DOLES CONNIE S [US]
- [A] DE 3842294 A1 19900621 - TKM TELEKOMMUNIKATION U ELEKTR [DE]
- [A] US 4491685 A 19850101 - DREW THOMAS J [US], et al

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CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0624933 A2 19941117; **EP 0624933 A3 19960131**; **EP 0624933 B1 19980916**; CN 1102733 A 19950517; DE 69413299 D1 19981022; DE 69413299 T2 19990325; ES 2123681 T3 19990116; JP H076830 A 19950110; KR 940027225 A 19941210; US 5387128 A 19950207; US 5561900 A 19961008; US 6471545 B1 20021029

DOCDB simple family (application)

EP 94107316 A 19940510; CN 94105812 A 19940513; DE 69413299 T 19940510; ES 94107316 T 19940510; JP 9840994 A 19940512; KR 19940010369 A 19940512; US 15109593 A 19931112; US 33971894 A 19941114